

IN THE CLAIMS

Please amend the claims as follows:

Listing of Claims

1. (Three Times Amended) A semiconductor device comprising:
 - a first semiconductor layer of a first conductivity type having first and second major surfaces;
 - a first semiconductor region of a second conductivity type formed selectively in said first major surface of said first semiconductor layer so that said first semiconductor layer [is exposed in] remains along a peripheral portion of said first major surface, and said first semiconductor layer [is exposed] remains in [the] a form of an insular region in a planar view in a central portion of said first major surface;
 - a second semiconductor region of the first conductivity type formed in a surface of said first semiconductor region, with a channel region provided between said second semiconductor region and said insular region of said first semiconductor layer;
 - a gate insulating film formed on a surface of said channel region;
 - a first gate formed on said gate insulating film;
 - an interlayer insulating film formed at least on said first gate;
 - a first main electrode formed over a surface of said interlayer insulating film and covering a surface of said second semiconductor region, said first main electrode being electrically connected to said second semiconductor region and having an end extending to a boundary between the peripheral portion of said first major surface and the central portion of said first major surface;
 - a second main electrode formed on said second major surface of said first semiconductor layer; and

an integral semi-insulating plasma CVD nitride film covering at least the peripheral portion of said first major surface other than the central portion of said first major surface and not extending [to] above an upper portion of a region that said first gate is formed, said integral semi-insulating plasma CVD nitride film having a conductivity which does not lose function as an insulating film and stabilizes breakdown voltage characteristics of the semiconductor device.

2. The semiconductor device of claim 1, wherein
said plasma CVD nitride film extends from the peripheral portion of said first major surface to a surface of said first main electrode at said end.

3. (Amended) The semiconductor device of claim 1, further comprising:
a second gate not covered with said first main electrode [gate]; and
a gate interconnection line formed selectively on a surface of said second gate,
wherein a trench is formed between said first main electrode and said gate
interconnection line for electrical isolation between said first main electrode and said gate
interconnect line, and
wherein said first gate and said second gate are integrally formed and electrically
connected [by said gate interconnection line].

4. The semiconductor device of claim 3, wherein
said plasma CVD nitride film further extends from a surface of said gate
interconnection line through said trench to a portion of a surface of said first main electrode.

5. The semiconductor device of claim 4, wherein
said plasma CVD nitride film is a semi-insulation film having a conductivity ranging
from 1×10^{-14} to 1×10^{-10} (1/Ω cm).

6. The semiconductor device of claim 4, wherein
said plasma CVD nitride film is a semi-insulation film having a conductivity ranging
from 1×10^{-13} to 1×10^{-11} (1/Ω cm).

7. The semiconductor device of claim 1, further comprising:
a second semiconductor layer of the second conductivity type formed between said
second major surface of said first semiconductor layer and said second main electrode.

8. (Amended) The semiconductor device of claim 7, further comprising: a second
gate not covered with said first main electrode; and
a gate interconnection line formed selectively on a surface of said second gate,
wherein a trench is formed between said first main electrode and said gate
interconnection line for electrical isolation between said first main electrode and said gate
interconnect line, and
wherein said first gate electrode and said second gate electrode are integrally formed
and electrically connected [by said gate interconnection line].

9. (Amended) The semiconductor device of claim 8, wherein
said [surface protective film] plasma CVD nitride film further extends from a surface
of said gate interconnection line through said trench to a portion of a surface of said first
main electrode.

10. The semiconductor device of claim 9, wherein
said plasma CVD nitride film is a semi-insulation film having a conductivity ranging
from 1×10^{-14} to 1×10^{-10} (1/ Ω cm).

11. The semiconductor device of claim 9, wherein
said plasma CVD nitride film is a semi-insulation film having a conductivity ranging
from 1×10^{-13} to 1×10^{-11} (1/ Ω cm).

12. (Three Times Amended) A semiconductor device comprising:
a first semiconductor layer of a first conductivity type having first and second major
surfaces;
at least one first semiconductor region of a second conductivity type formed
selectively in said first major surface of said first semiconductor layer so that said first
semiconductor [layer is exposed in] remains along a peripheral portion of said first major
surface, and said first semiconductor [layer is exposed] region remains in [the] a form of a
plurality of insular regions in a planar view in a central portion of said first major surface;
a plurality of second semiconductor regions of the first conductivity type formed in a
surface of said at least one first semiconductor region, with channel regions provided between
said second semiconductor regions and said insular regions of said first semiconductor layer;
a gate insulating film formed on a surface of said channel regions;
a first gate formed on said gate insulating film;
an interlayer insulating film formed at least on said first gate;
a first main electrode formed over a surface of said interlayer insulating film and
covering a surface of said second semiconductor region, said first main electrode being

electrically connected to said plurality of second semiconductor regions, said first main electrode further having an end extending to a boundary between the peripheral portion of said first major surface and the central portion of said first major surface;

a second main electrode formed on said second major surface of said first semiconductor layer; and

an integral semi-insulating plasma CVD nitride film for covering at least the peripheral portion of said first major surface other than the central portion of said first major surface and not extending [to] above an upper portion of a region that said first gate is formed, said integral semi-insulating plasma CVD nitride film having a conductivity which does not lose function as an insulating film and stabilizes breakdown voltage characteristics of the semiconductor device.

13. The semiconductor device of claim 12, wherein

said plasma CVD nitride film extends from the peripheral portion of said first major surface to a surface of said first main electrode at said end.

14. (Amended) The semiconductor device of claim 13, further comprising:

a second gate not covered with said first main electrode; and

a gate interconnection line formed selectively on a surface of said second gate,

wherein a trench is formed between said first main electrode and said gate interconnection line for electrical isolation between said first main electrode and said gate interconnect line, and

wherein said first gate and said second gate are integrally formed and electrically connected [by said gate interconnection line].

15. The semiconductor device of claim 14, wherein
said plasma CVD nitride film further extends from a surface of said gate
interconnection line through said trench to a portion of a surface of said first main electrode.
16. The semiconductor device of claim 15, wherein
said plasma CVD nitride film is a semi-insulation film having a conductivity ranging
from 1×10^{-14} to 1×10^{-10} (1/ Ω cm).
17. The semiconductor device of claim 15, wherein
said plasma CVD nitride film is a semi-insulation film having a conductivity ranging
from 1×10^{-13} to 1×10^{-11} (1/ Ω cm).
18. The semiconductor device of claim 13, further comprising:
a second semiconductor layer of the second conductivity type formed between said
second major surface of said first semiconductor layer and said second main electrode.
19. (Amended) The semiconductor device of claim 18, further comprising:
a second gate not covered with said first main electrode; and
a gate interconnection line formed selectively on a surface of said second gate,
wherein a trench is formed between said first main electrode and said gate
interconnection line for electrical isolation between said first main electrode and said gate
interconnect line, and
wherein said first gate and said second gate are integrally formed and electrically
connected [by said gate interconnection line].

20. The semiconductor device of claim 19, wherein
said plasma CVD nitride film further extends from a surface of said gate
interconnection line through said trench to a portion of a surface of said first main electrode.

21. The semiconductor device of claim 20, wherein
said plasma CVD nitride film is a semi-insulation film having a conductivity ranging
from 1×10^{-14} to 1×10^{-10} (1/ Ω cm).

22. The semiconductor device of claim 20, wherein
said plasma CVD nitride film is a semi-insulation film having a conductivity ranging
from 1×10^{-13} to 1×10^{-11} (1/ Ω cm).